

associated with the circulation patterns shown in figure 11. During winter the very strong ridge and northerly direction of the height anomaly (fig. 11A) favored repeated, strong outbreaks of Arctic air masses. In spring (fig. 11B) heights were below normal in western Canada and there was a trough along the west coast. These conditions encourage warmth east of the Rockies.

Compared with the winter season, spring was rather unspectacular with few new records. Reno, Nev., reported the wettest spring since records began with more than three times normal rainfall associated with the coastal trough. Other records include the warmest spring at Dallas, Tex., and the driest spring at Lake Charles, La.

## REFERENCES

1. J. Namias, "Persistence of Mid-Tropospheric Circulations between Adjacent Months and Seasons," *The Atmosphere and the Sea in Motion*, The Rossby Memorial Volume, Rockefeller Institute Press in association with Oxford University Press, New York, 1959, pp. 240-248.
2. J. W. Posey, "The Weather and Circulation of April 1963—Continued Warm East of the Continental Divide and Cool to the West," *Monthly Weather Review*, vol. 91, No. 7, July 1963, pp. 347-352.
3. U.S. Weather Bureau, *Weekly Weather and Crop Bulletin, National Summary*, vol. L, Nos. 10, 18-23, March 11, May 6, 13, 20, 27, June 3, 10, 1963.
4. U.S. Weather Bureau, *Climatological Data, National Summary*, vol. 14, No. 5, May 1963, Chart VIII.
5. W. H. Klein, "Principal Tracks and Mean Frequencies of Cyclones and Anticyclones in the Northern Hemisphere," U.S. Weather Bureau, *Research Paper* No. 40, Washington, D.C. 1957, 59 pp.
6. L. P. Stark, "The Weather and Circulation of December 1962—Record Cold in the South," *Monthly Weather Review*, vol. 91, No. 3, Mar. 1963, pp. 167-174.
7. J. F. O'Connor, "The Weather and Circulation of January 1963—One of the Most Severe Months on Record in the United States and Europe," *Monthly Weather Review*, vol. 91, No. 4, Apr. 1963, pp. 209-218.
8. R. A. Green, "The Weather and Circulation of February 1963—A Warm Month in the West and Continued Cold in the East," *Monthly Weather Review*, vol. 91, No. 5, May 1963, pp. 220-226.

## CORRECTION

Vol. 91, No. 6, June 1963, p. 287: Figure 22 should be credited as follows, "(After Ward [34])."